

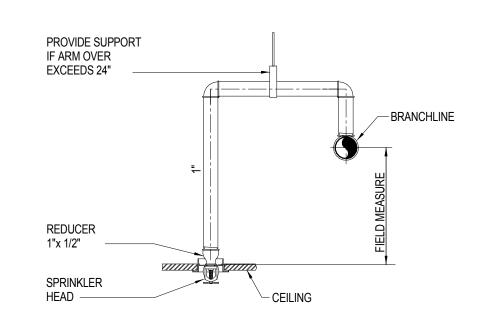
3RD FLOOR PLAN BLDG 1A

1/16" = 1'-0"

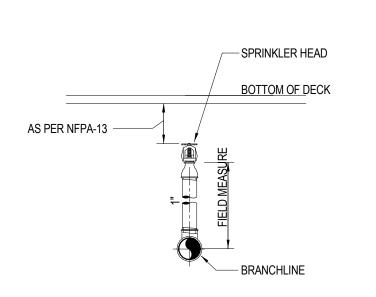
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VA FORM 08-6231









GENERAL NOTES

1. FIRE PROTECTION SPRINKLER INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:

ASSEMBLY AND PRESSURE GAGE, ON THE SPRINKLER MAIN BRANCH SERVING EACH FLOOR.

A. NFPA 13 AND 14, 2013 ED.B. LOCAL AND STATE REGULATIONS AND IBC 2012 ED.

ARE TO BE ATTACHED TO THE SPRINKLER PIPE.

- C. DVA FIRE PROTECTION MANUAL; SIXTH ED.; REVISED SEPTEMBER 2011
- 2. SPRINKLER HEADS SHALL BE FM APPROVED QUICK RESPONSE IN ALL AREAS EXCEPT WHERE SPECIFICALLY PROHIBITED, IN COMPLIANCE WITH VA GUIDELINES AND NFPA REQUIREMENTS.
- 3. SPRINKLERS THROUGHOUT THE BUILDING TO BE ORDINARY TEMPERATURE RATED EXCEPT FOR ELECTRICAL ROOMS/CLOSETS, HEADS LOCATED WITH 15' OF AUTOCLAVES AND CAGEWASHER SHALL BE INTERMEDIATE TEMPERATURE RATED AND MECHANICAL ROOMS TO BE PROVIDED WITH HIGH TEMPERATURE RATED HEADS.
- 4. SPRINKLER PIPE SIZES AND SPRINKLER HEAD LOCATIONS SHALL CONFORM TO NFPA REQUIREMENTS. SPRINKLER HEADS INDICATED ON DRAWINGS ARE FOR DESIGN
- COORDINATION AND BUDGETARY PRICING ONLY.

 5. PIPE HANGERS INCLUDING SEISMIC PROTECTION TO BE INSTALLED AS REQUIRED BY N.F.P.A. FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES
- 6. PIPING SHALL NOT BE LOCATED IN ANY ELECTRICAL ROOMS/CLOSETS OR TELECOMMUNICATION ROOMS/CLOSETS UNLESS THOSE PIPES SERVE ONLY THAT SPACE.
- 7. ALL SPRINKLER PIPE TO MAINTAIN A 6'-0" MIN VERTICAL CLEARANCE FROM TOP OF ELECTRICAL CONTROL PANELS & SWITCHGEAR/TRANFORMERS.
- 8. PROVIDE SPRINKLER ZONE FLOOR CONTROL VALVE ASSEMBLY CONSISTING OF CONTROL VALVE, CHECK VALVE, FLOW SWITCH, SELF-CONTAINED TEST AND DRAIN
- 9. INSTALL PIPING SO THAT VALVES ARE ACCESSIBLE AND STEMS EXTEND VERTICALLY UP. ALL CONTROL VALVES SHALL BE EQUIPPED WITH TAMPER SWITCHES.
- 10. ALL WATER FLOW SWITCHES MUST BE ISOLATED BY MEANS OF A FITTING OR UNION ON BOTH SIDE TO FACILITATE REMOVAL AND SERVICE OF THE FLOW SWITCH.
- 11. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE QUANTITY OF SPRINKLER HEADS AS REQUIRED TO MAINTAIN THE MINIMUM COVERAGE REQUIRED BY NFPA 13.
- 12. COORDINATE THE EXACT LOCATION OF ALL SPRINKLER HEADS, PIPING, EQUIPMENT, AND DEVISES WITH ARCHITECTURAL DRAWINGS AND THE RESPECTIVE DRAWINGS OF PIPING, DUCTWORK, DIFFUSERS, BEAMS, LIGHTS, ETC. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THESE COMPONENTS IN THE FIELD.
- DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR COMPLETE SYSTEMS, SHALL BE PROVIDED AND CONFORM TO ACCEPTED TRADE PRACTICES. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE SYSTEMS. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND ROUTING OF THE SYSTEMS INCLUDED IN THIS CONTRACTORS WORK.

 14. THESE DRAWINGS WERE PREPARED FROM INFORMATION TAKEN FROM THE ORIGINAL BUILDING DRAWINGS AND FIELD SURVEY INFORMATION COMPILED BY THE

13. PROVIDE COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEMS FOR THE PROJECT. THE SYSTEMS SHALL CONFORM TO THE SPECIFICATIONS AND AS SHOWN ON

- POSSIBILITY THAT CONDITIONS SHOWN ARE NOT EXACTLY AS EXISTING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, SIZES AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK.

 15. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING ORDER OF THE PROPERTY AND THE PREMISES. AND THE
- OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REVISED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.

ENGINEERING DESIGN TEAM FOR THE PURPOSE OF ENGINEERING DESIGN CONCEPT. EXISTING CONDITIONS ARE SHOWN AS ACCURATELY AS POSSIBLE. THERE IS THE

16. CONTRACTOR SHALL MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO STARTING FABRICATION AND CONSTRUCTION.

FIRE PROTECTION DESIGN CRITERIA

1. SYSTEM TYPE; WET PIPE

2. SPRINKLER HEAD SPACING AND PIPE SIZING SHALL BE:

- TOILET ROOMS AND PATIENT AREAS; LIGHT HAZARD (0.10 GPM/SQ.FT. OVER 1500 SQ.FT, 225 SQ.FT. PER SPRINKLER HEAD)
- MECHANICAL ROOMS AND ELECTRIC CLOSETS; ORDINARY GROUP 1 HAZARD (0.15 GPM/SQ.FT. OVER 1500 SQ.FT, 130 SQ.FT, 130 SQ.FT. PER SPRINKLER HEAD)
 STORAGE ROOMS; ORDINARY GROUP II HAZARD (0.20 GPM/SQ.FT. OVER 1500 SQ.FT, 130 SQ.FT. PER SPRINKLER HEAD)
 EXTENDED COVERAGE SPRINKLERS MAY BE USED IN AREAS WHERE INSTALLATION OF STANDARD SPRINKLER COVERAGE CAN NOT BE MAINTAINED DUE:
- d. EXTENDED COVERAGE SPRINKLERS MAY BE USED IN AREAS WHERE INSTALLATION OF STANDARD SPRINKLER COVERAGE CAN NOT BE MAINTAINED DUE TO CEILING MOUNTED EQUIPMENT AND FIXTURES.
- 3. PROVIDE FOR AN ADDITIONAL WATER ALLOWANCE TOTAL OF 250 GPM FOR INSIDE AND OUTSIDE HOSE STREAMS TO THE SPRINKLER HYDRAULIC REQUIREMENTS.
- 4. THE CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PERCENT BELOW THE AVAILABLE WATER SUPPLY.
- 5. SYSTEM SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS UTILIZING THE AREA DENSITY METHOD PER THE NFPA 13 BY THE SPRINKLER CONTRACTOR. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PENNSYLVANIA.
- 6. SPRINKLERS THROUGHOUT THE BUILDING TO BE ORDINARY TEMPERATURE RATED EXCEPT FOR ELECTRICAL ROOMS/CLOSETS, AND MECHANICAL ROOMS TO BE HIGH TEMPERATURE RATED HEADS.
- 7. SPRINKLER PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS BASED ON EXISTING FIRE PUMP HYDRAULIC FLOW TEST DATA (SEE VAMC-HUNTINGTON FOR CURRENT PUMP TEST DATA):
- DATE SEPTEMBER 28, 2013
- SUCTION PRESSURE 62 PSIG
- DISCHARGE PRESSURE 140 PSIG
 RATED FIRE PUMP FLOW 500 GPM

LEGEND

	EXISTING	ABV CLG - ABOVE THIS CEILING
	EXISTING TO BE REMOVED	BLW FLR - BELOW THIS FLOOR
——— F ———	FIRE PIPING	(E) - EXISTING
	SPRINKLER PIPING	`,
D	SPRINKLER DRAIN PIPING	EC - ELECTRICAL CONTRACTOR
─ ─ ▽	CHECK VALVE	FC - FIRE PROTECTION CONTRACTOR
$-\!\!-\!$	CONTROL VALVE	PC - PLUMBING CONTRACTOR
	INSPECTORS TEST FITTING	FHV - FIRE HOSE VALVE
φ	PRESSURE GAUGE	FDC - FIRE DEPARTMENT CONNECTION
 	GROUND FACE UNION OR FLANGES	SPR - SPRINKLER
FS	WATERFLOW SWITCH	SPR - SPRIINCLER
TS	TAMPER SWITCH	
\bigcirc	UPRIGHT SPRINKLER HEAD	
	RECESSED PENDENT SPRINKLER HEAD	
\triangleleft	SIDEWALL SPRINKLER HEAD	
	SPRINKLER ZONE/SMOKE WALL	
	REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATING / TYPE SYMBOLS	

100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

Office of

Construction

and Facilities

Management

Department of Veterans Affairs

Project Title Drawing Title Project Number CONSULTANTS: MILLER-REMICK CORPORA ARCHITECT / ENGINEERS: RENOVATE SURGICAL 581-13-101 **GENERAL NOTES, LEGEND AND DETAILS SERVICE & UPGRADE Building Number** PF&A DESIGN **OPERATING ROOMS** ARCHITECTURE, PLANNING, INTERIORS Miller-Remick LLC
M.E.P. & Structural Engineering
A Service Disabled Veteran Owned **1S** World Trade Center 101 West Main Street, Suite 7000 Approved: Medical Center Director Drawing Number Location **HUNTINGTON, WV** ្តី SDVOSB ថ្មី Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4205 1010 KINGS HIGHWAY SOUTH FX0.01 CHERRY HILL, NEW JERSEY 08034 Checked www.pfa-architect.com 10.31.2014 MP PD Dwg.**175** of 178 DATE DESCRIPTION

